NATA LIGHTING CO.,LTD.
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Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client:
LumCAT: 3-2835-L
Luminaire: 92.70.411.00
Report No: 2024408-B025
Ballast type: AC

Test No: 2024408-C025	Voltage(V): 34.920
LampCAT: Fortimo_SLM_C_1205	Current(A): 0.401
Lamp flux(lm): 2378.0	Power (W): 14.002
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2030.44, Efficiency(%): 85.38% , Luminous Efficacy(lm/W): 145.01
Central intensity(cd): 3493.706, Maximum intensity(cd): 3526.113
Angle of maximum intensity: C=0.0 γ=4.0
Beam Angle(50%Imax): [C0/180]Total=44.8
[C90/270]Total=44.8
Field angle(10%Imax): [C0/180]Total=67.4
[C90/270]Total=67.4
Maximum s/h(1/2): C0_180=0.74 C90_270=0.74
Maximum s/h(1/4): C0_180=0.70 C90_270=0.70
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 85.38%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.698%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3493.705	0.000	0	0.00%	0.00%
1.0	3497.363	3.345	3.345	0.14%	0.16%
2.0	3507.385	10.054	13.399	0.42%	0.66%
3.0	3519.309	16.806	30.205	0.71%	1.49%
4.0	3526.112	23.583	53.788	0.99%	2.65%
5.0	3523.186	30.326	84.114	1.28%	4.14%
6.0	3505.044	36.935	121.049	1.55%	5.96%
7.0	3474.686	43.323	164.372	1.82%	8.10%
8.0	3438.402	49.476	213.847	2.08%	10.53%
9.0	3391.949	55.356	269.204	2.33%	13.26%
10.0	3336.060	60.886	330.09	2.56%	16.26%
11.0	3271.759	66.026	396.115	2.78%	19.51%
12.0	3190.998	70.647	466.763	2.97%	22.99%
13.0	3097.362	74.627	541.39	3.14%	26.66%
14.0	2996.045	77.995	619.385	3.28%	30.50%
15.0	2872.782	80.570	699.955	3.39%	34.47%
16.0	2746.154	82.333	782.288	3.46%	38.53%
17.0	2600.798	83.266	865.554	3.50%	42.63%
18.0	2446.226	83.214	948.769	3.50%	46.73%
19.0	2294.214	82.474	1031.243	3.47%	50.79%
20.0	2142.348	81.201	1112.444	3.41%	54.79%
21.0	1986.093	79.274	1191.718	3.33%	58.69%
22.0	1828.155	76.649	1268.367	3.22%	62.47%
23.0	1679.581	73.602	1341.969	3.10%	66.09%
24.0	1502.763	69.577	1411.547	2.93%	69.52%
25.0	1329.836	64.407	1475.954	2.71%	72.69%
26.0	1237.524	60.603	1536.556	2.55%	75.68%
27.0	1134.027	58.021	1594.577	2.44%	78.53%
28.0	1022.264	54.593	1649.17	2.30%	81.22%
29.0	905.109	50.426	1699.595	2.12%	83.71%
30.0	789.337	45.750	1745.345	1.92%	85.96%
31.0	666.440	40.512	1785.857	1.70%	87.95%
32.0	543.286	34.657	1820.514	1.46%	89.66%
33.0	435.671	28.840	1849.355	1.21%	91.08%
34.0	324.156	22.995	1872.349	0.97%	92.21%
35.0	240.520	17.537	1889.886	0.74%	93.08%
36.0	177.674	13.315	1903.202	0.56%	93.73%
37.0	106.577	9.271	1912.472	0.39%	94.19%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	68.157	5.832	1918.305	0.25%	94.48%
39.0	60.029	4.375	1922.68	0.18%	94.69%
40.0	54.887	4.008	1926.688	0.17%	94.89%
41.0	50.717	3.761	1930.448	0.16%	95.08%
42.0	47.696	3.576	1934.024	0.15%	95.25%
43.0	45.450	3.450	1937.474	0.15%	95.42%
44.0	43.292	3.349	1940.824	0.14%	95.59%
45.0	41.383	3.254	1944.078	0.14%	95.75%
46.0	39.532	3.164	1947.242	0.13%	95.90%
47.0	37.842	3.077	1950.319	0.13%	96.05%
48.0	36.233	2.994	1953.314	0.13%	96.20%
49.0	34.901	2.921	1956.235	0.12%	96.35%
50.0	33.702	2.860	1959.095	0.12%	96.49%
51.0	32.524	2.802	1961.897	0.12%	96.62%
52.0	31.310	2.739	1964.636	0.12%	96.76%
53.0	30.007	2.667	1967.304	0.11%	96.89%
54.0	28.669	2.586	1969.89	0.11%	97.02%
55.0	27.279	2.497	1972.387	0.11%	97.14%
56.0	26.013	2.408	1974.795	0.10%	97.26%
57.0	24.857	2.326	1977.121	0.10%	97.37%
58.0	23.921	2.256	1979.377	0.09%	97.49%
59.0	22.999	2.194	1981.571	0.09%	97.59%
60.0	22.100	2.131	1983.701	0.09%	97.70%
61.0	21.302	2.071	1985.772	0.09%	97.80%
62.0	20.622	2.020	1987.793	0.08%	97.90%
63.0	20.102	1.981	1989.773	0.08%	98.00%
64.0	19.539	1.945	1991.718	0.08%	98.09%
65.0	18.778	1.896	1993.615	0.08%	98.19%
66.0	17.835	1.827	1995.442	0.08%	98.28%
67.0	17.235	1.763	1997.205	0.07%	98.36%
68.0	16.993	1.734	1998.939	0.07%	98.45%
69.0	16.847	1.726	2000.665	0.07%	98.53%
70.0	16.767	1.726	2002.392	0.07%	98.62%
71.0	16.672	1.728	2004.12	0.07%	98.70%
72.0	16.533	1.727	2005.846	0.07%	98.79%
73.0	16.350	1.720	2007.566	0.07%	98.87%
74.0	16.174	1.710	2009.276	0.07%	98.96%
75.0	15.947	1.697	2010.973	0.07%	99.04%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.604	1.675	2012.648	0.07%	99.12%
77.0	15.165	1.640	2014.288	0.07%	99.20%
78.0	14.696	1.598	2015.887	0.07%	99.28%
79.0	14.206	1.553	2017.44	0.07%	99.36%
80.0	13.636	1.501	2018.941	0.06%	99.43%
81.0	13.094	1.446	2020.386	0.06%	99.50%
82.0	12.458	1.386	2021.772	0.06%	99.57%
83.0	11.697	1.313	2023.085	0.06%	99.64%
84.0	10.856	1.229	2024.314	0.05%	99.70%
85.0	9.905	1.133	2025.447	0.05%	99.75%
86.0	9.415	1.056	2026.503	0.04%	99.81%
87.0	9.166	1.017	2027.52	0.04%	99.86%
88.0	8.925	0.991	2028.511	0.04%	99.90%
89.0	8.764	0.970	2029.48	0.04%	99.95%
90.0	8.749	0.960	2030.44	0.04%	100.00%

Zonal flux distribution table

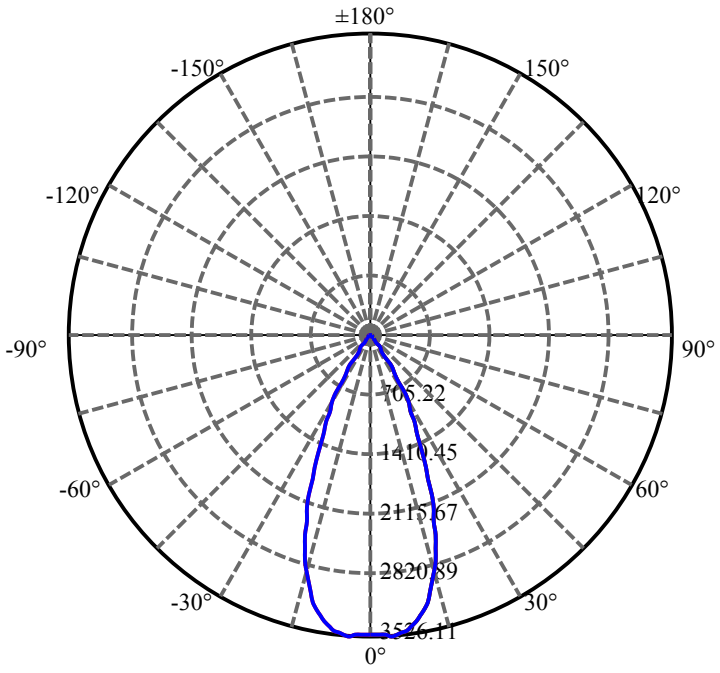
ZONAL LUMEN SUMMARY

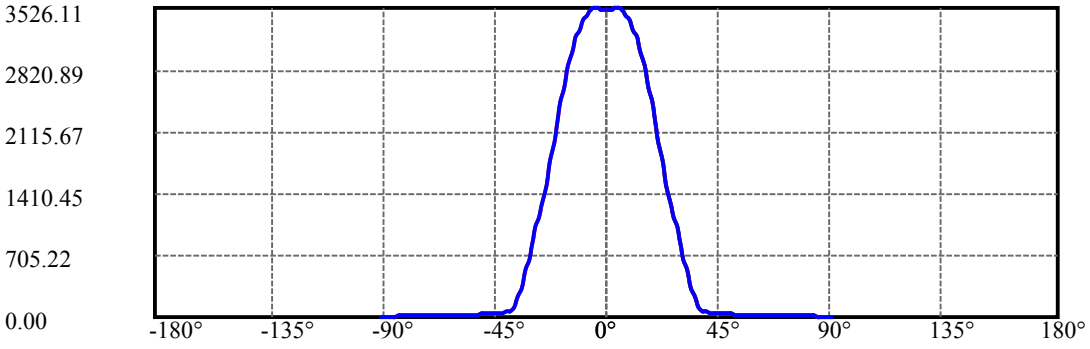
Zone	Lumens	%Lamp	%Fixt
0-30	1745.34	73.40%	85.96%
0-40	1926.69	81.02%	94.89%
0-60	1983.70	83.42%	97.70%
0-90	2029.48	85.34%	99.95%
0-120	2029.48	85.34%	99.95%
0-180	2030.44	85.38%	100.00%
60-90	45.78	1.93%	2.25%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.55	1624.35	68.31%	80.00%

ZONAL LUMEN SUMMARY

0-10	330.09
10-20	782.35
20-30	632.90
30-40	181.34
40-50	32.41
50-60	24.61
60-70	18.69
70-80	16.55
80-90	10.54
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

Light Distribution Curve [Unit:cd]





C0(Max):

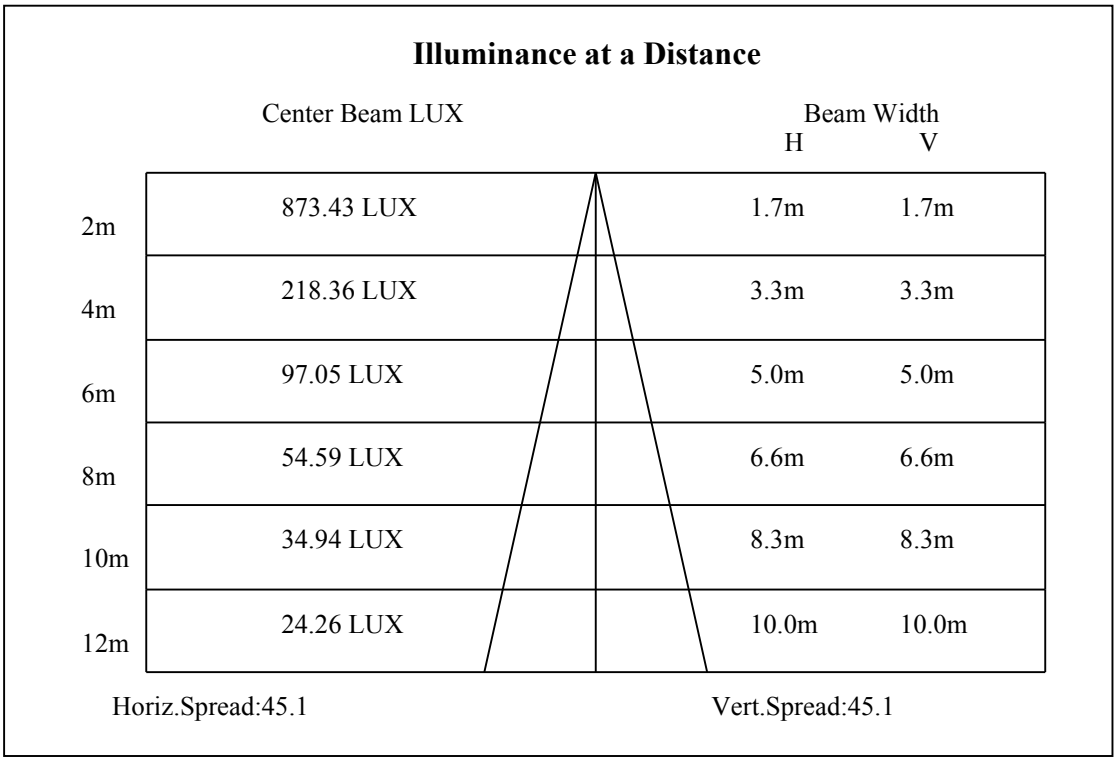
C0/C180:

C90/C270:

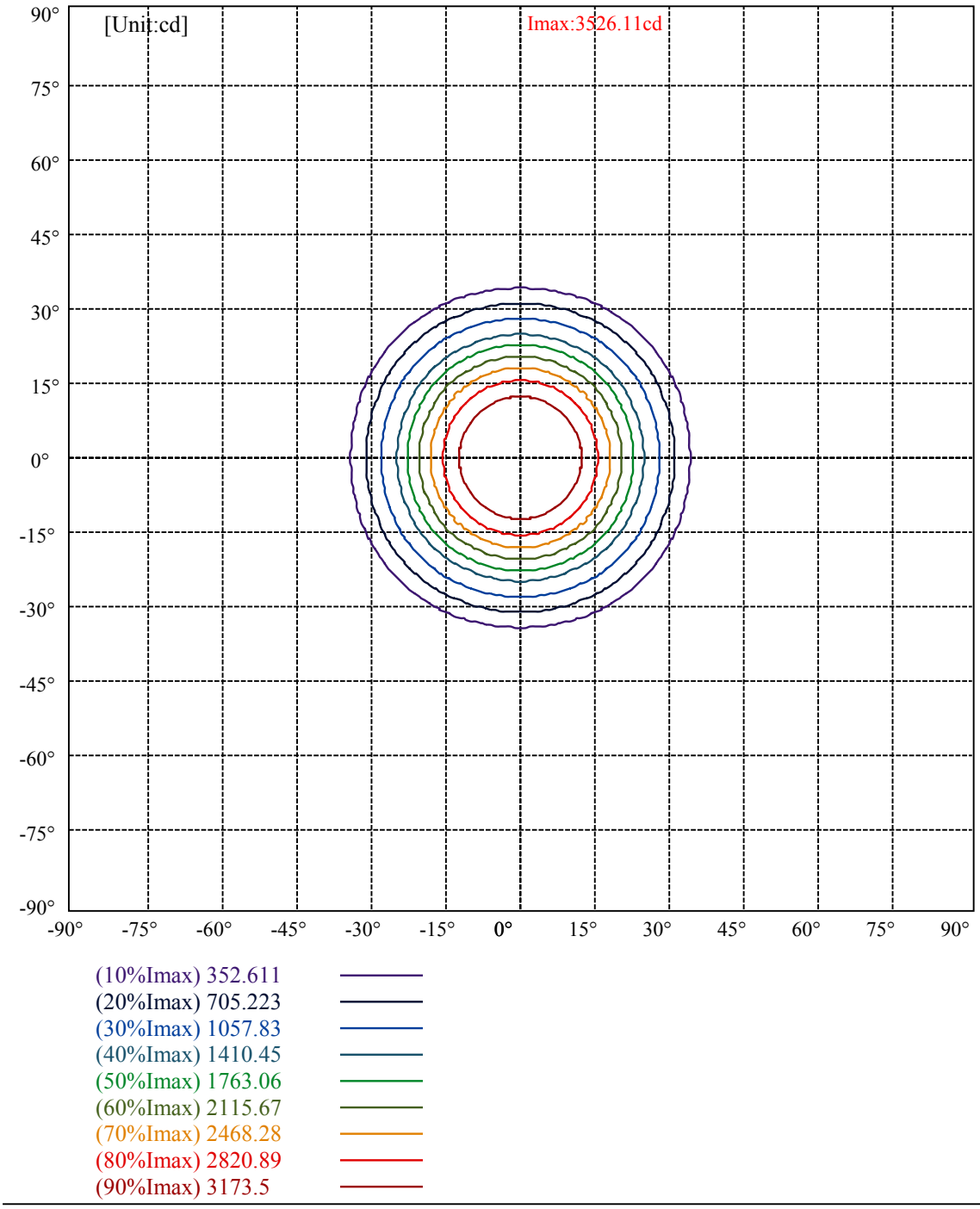
Field angle(10%Imax):C0/180Left:37.7 Right:29.7
:C90/270Left:37.7 Right:29.7

Beam Angle(50%Imax):C0/180Left:26.4 Right:18.4
:C90/270Left:26.4 Right:18.4

Lux distance Curve



ISO-Intensity(V-H)



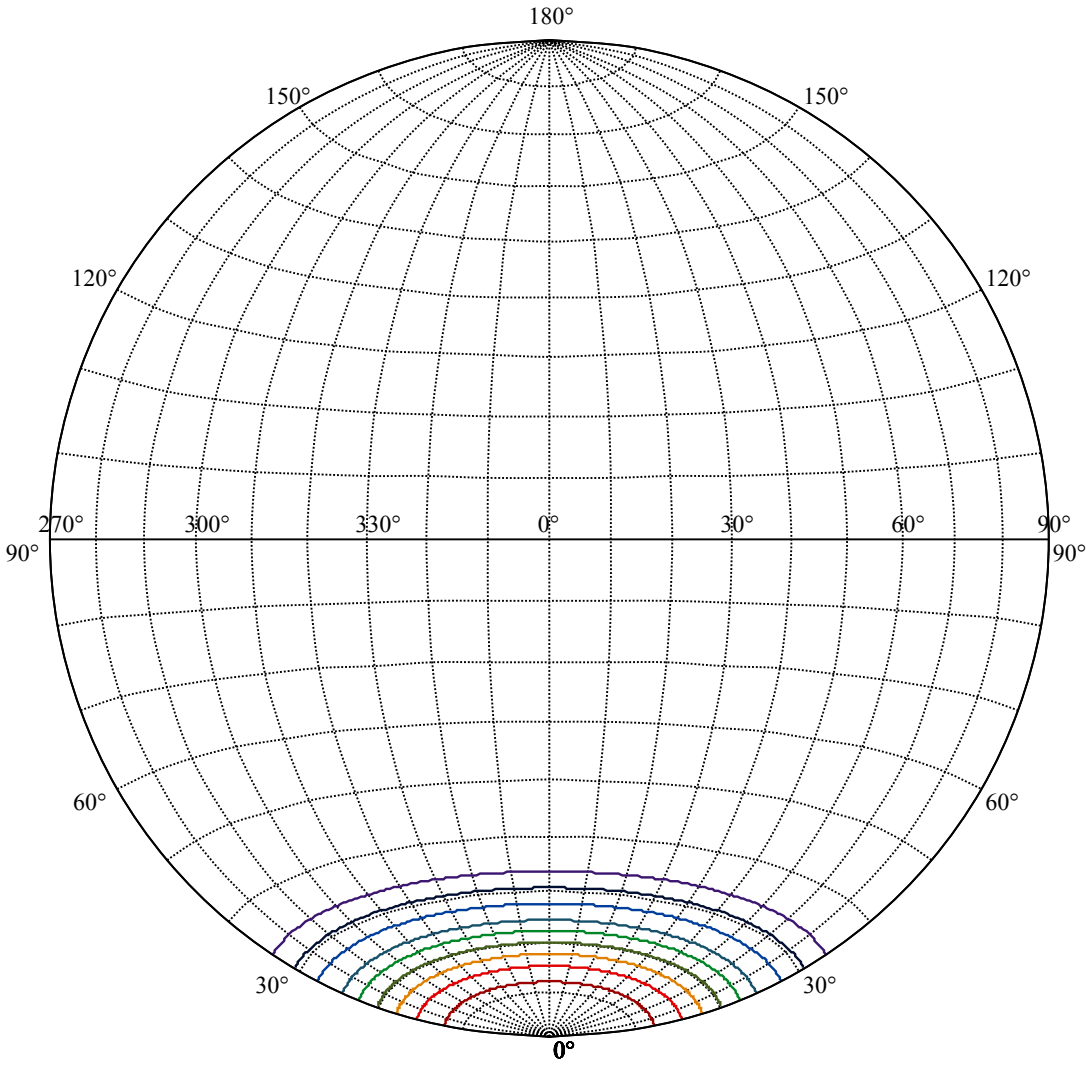
(10%Imax) 352.611
(20%Imax) 705.223
(30%Imax) 1057.83
(40%Imax) 1410.45
(50%Imax) 1763.06
(60%Imax) 2115.67
(70%Imax) 2468.28
(80%Imax) 2820.89
(90%Imax) 3173.5

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/08
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



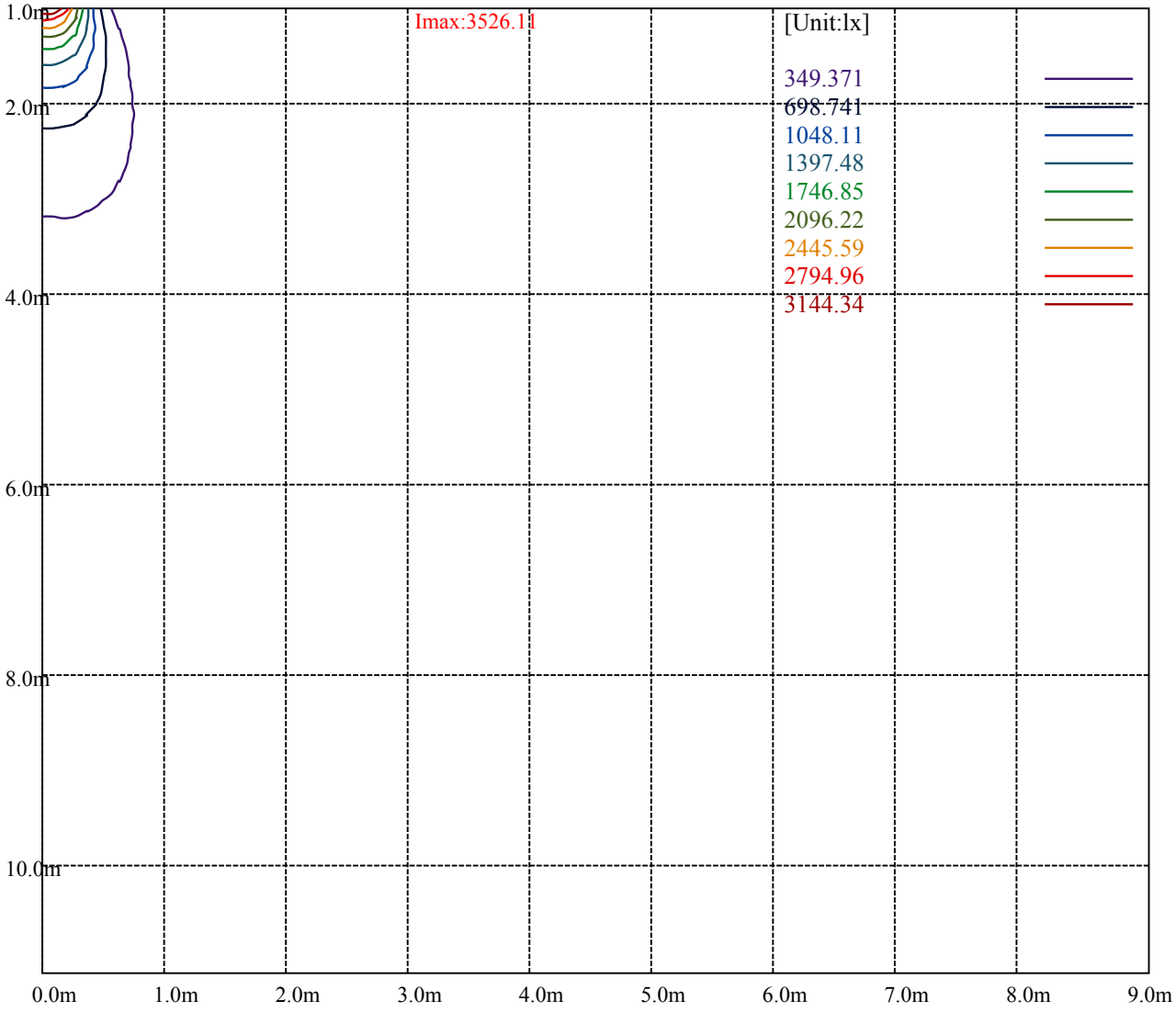
House [Unit:cd] Road

Imax:3526.11

(10%Imax) 352.611
(20%Imax) 705.223
(30%Imax) 1057.83
(40%Imax) 1410.45
(50%Imax) 1763.06
(60%Imax) 2115.67
(70%Imax) 2468.28
(80%Imax) 2820.89
(90%Imax) 3173.5

Equipment: GMS1980	Date: 2024/4/08	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/08
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

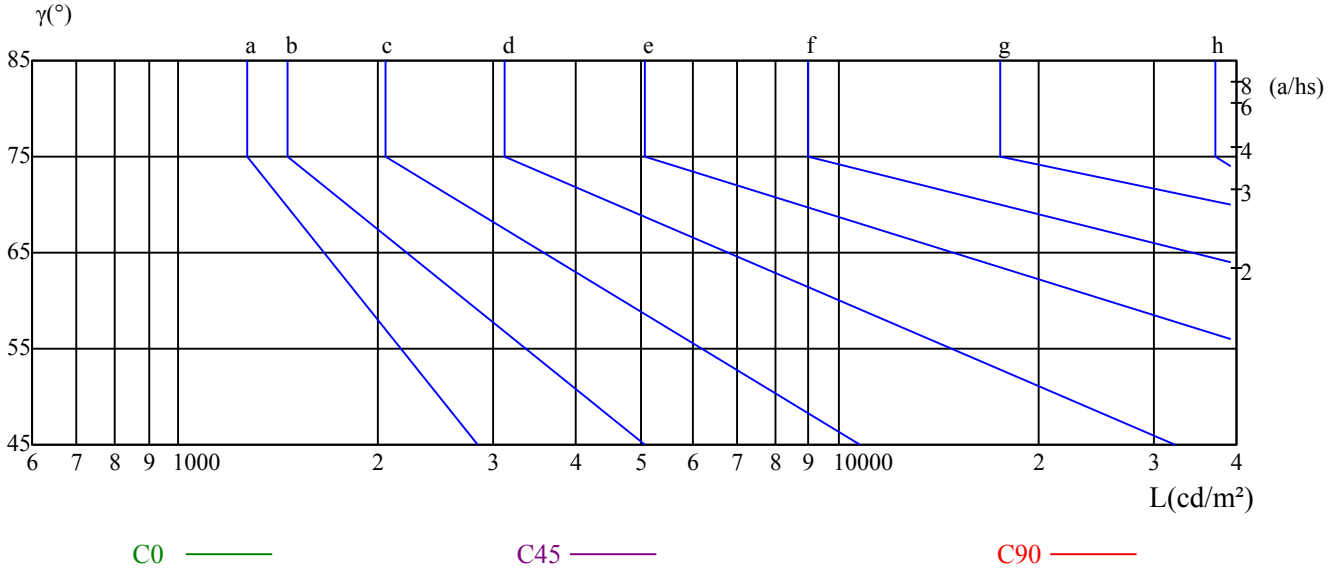
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

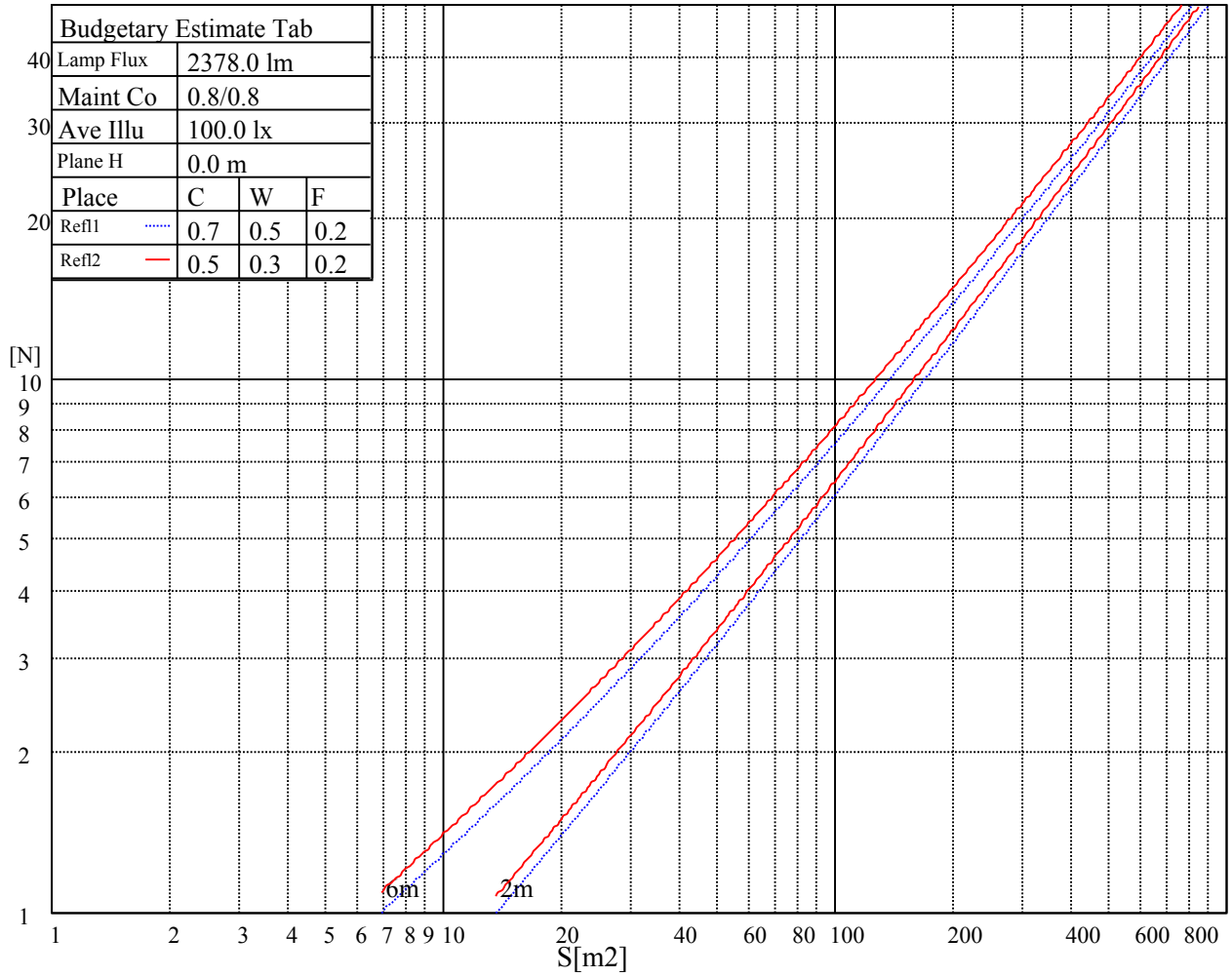
Luminance Limitting Curve



Illumination assessment according UGR										
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30
Rf of Wall	50	30	50	30	30	50	30	50	30	30
Rf of Floor	20	20	20	20	20	20	20	20	20	20
Room dimensions X Y	Viewed crosswise					Viewed endwise				
2H 2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
2H 3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
2H 4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
2H 6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
2H 8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
2H 12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
4H 2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
4H 3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
4H 4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
4H 6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
4H 8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
4H 12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
8H 4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
8H 6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
8H 8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
8H 12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
12H 4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
12H 6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
12H 8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
Variation with the observer position at spacings:										
S = 1.0H	非数字/非数字					非数字/非数字				
S = 1.5H	非数字/非数字					非数字/非数字				
S = 2.0H	非数字/非数字					非数字/非数字				
Standard tables:	BK0					BK0				
Uncorrected UGR	负无穷大					负无穷大				

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25

Budgetary Estimate Table

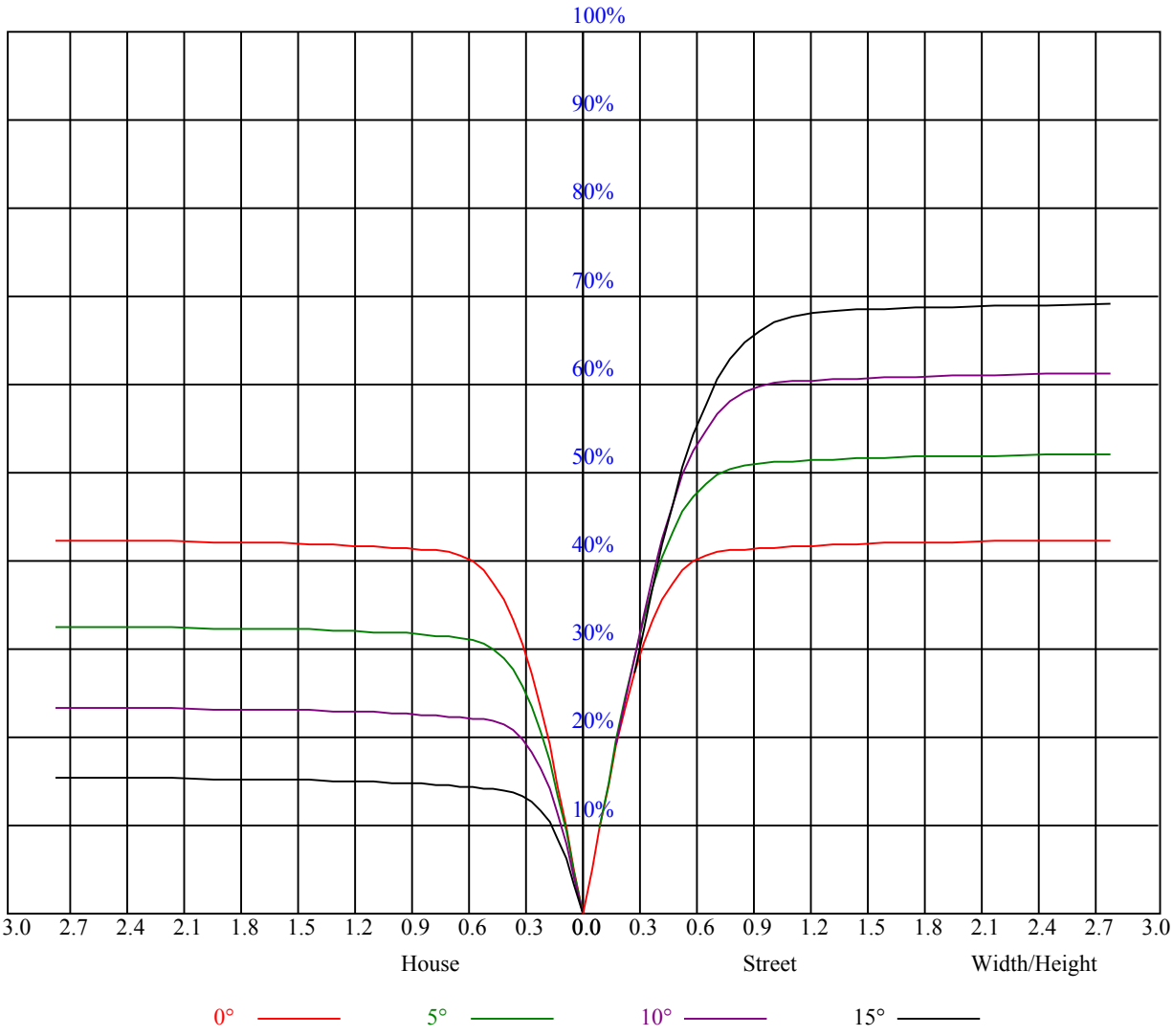


Equipment: GMS1980 Date: 2024/4/08 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

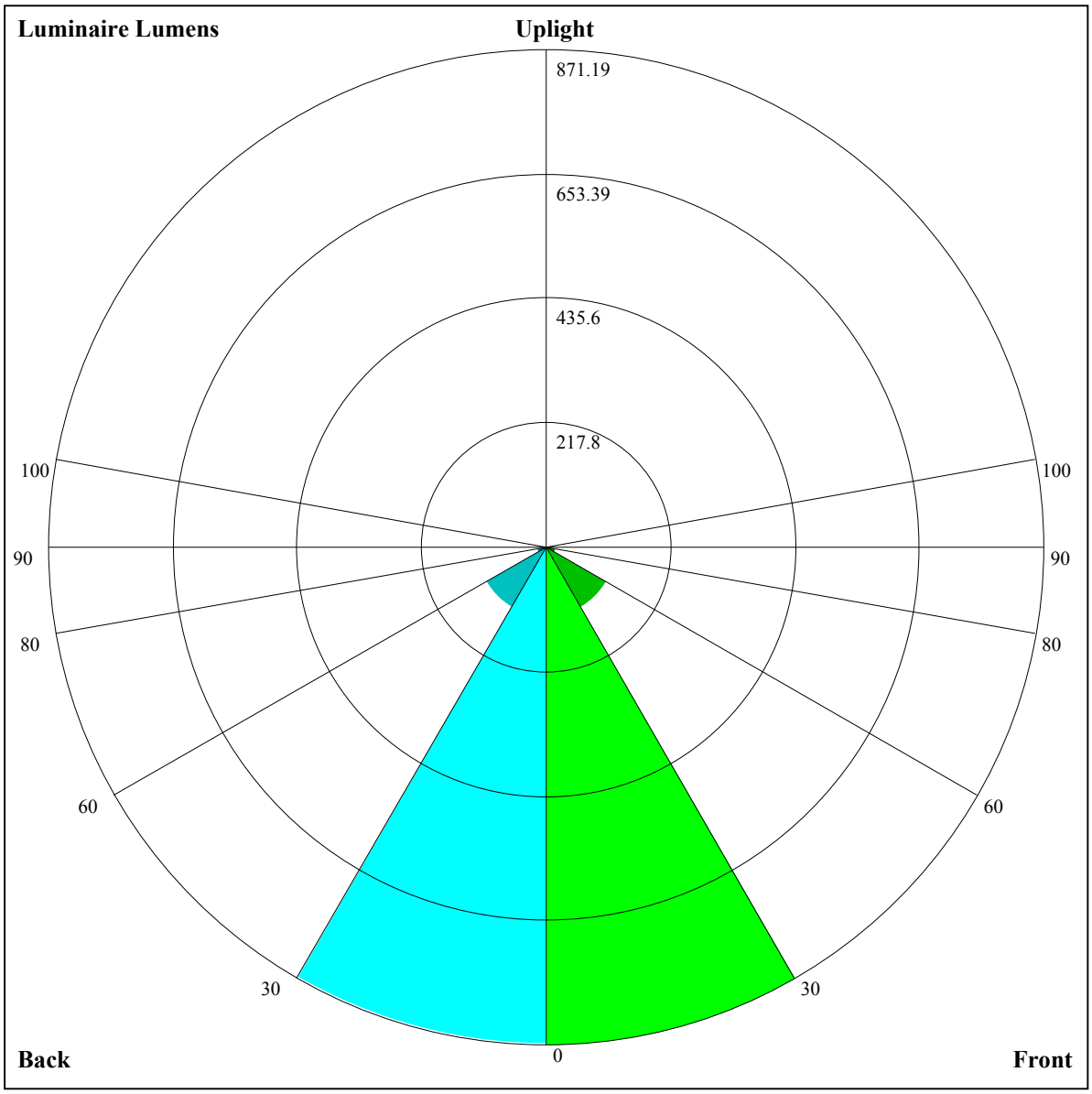
Utilization factor table for indoor luminaire

RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.02	1.02	1.02	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.85
1	0.95	0.93	0.91	0.93	0.91	0.89	0.90	0.88	0.87	0.86	0.85	0.84	0.83	0.83	0.82	0.80
2	0.89	0.86	0.83	0.87	0.85	0.82	0.85	0.82	0.80	0.82	0.80	0.79	0.80	0.78	0.77	0.76
3	0.84	0.80	0.77	0.83	0.79	0.76	0.80	0.77	0.75	0.78	0.76	0.74	0.76	0.74	0.73	0.71
4	0.79	0.75	0.72	0.78	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.73	0.71	0.69	0.68
5	0.75	0.71	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.71	0.68	0.66	0.70	0.67	0.65	0.64
6	0.71	0.67	0.64	0.71	0.66	0.63	0.69	0.66	0.63	0.68	0.65	0.62	0.67	0.64	0.62	0.61
7	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.59	0.64	0.61	0.59	0.58
8	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.56	0.55
9	0.62	0.57	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.60	0.57	0.54	0.59	0.56	0.54	0.53
10	0.59	0.55	0.52	0.59	0.55	0.52	0.58	0.54	0.52	0.58	0.54	0.52	0.57	0.54	0.52	0.51

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/4/08	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=871.19,FM=120.81,FH=17.73,FVH=5.77
BL=869.58,BM=120.49,BH=17.58,BVH=5.74
UL=0,UH=0

BUG Rating:B2-U0-G0

Intensity data(cd)

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	3489.76	3489.17	3504.97	3519.60	3527.79	3526.62	3507.31	3478.05	3451.13
45.0	3498.53	3490.93	3491.51	3506.14	3514.92	3525.45	3519.60	3509.65	3479.22
90.0	3492.10	3498.53	3506.14	3511.41	3521.94	3511.99	3495.02	3463.42	3423.04
135.0	3494.44	3496.78	3497.95	3509.65	3514.92	3516.68	3509.07	3487.41	3462.25
180.0	3489.76	3495.61	3503.22	3518.43	3524.87	3522.53	3510.24	3476.30	3446.45
225.0	3498.53	3511.41	3524.28	3535.99	3533.06	3516.68	3482.73	3437.67	3389.10
270.0	3492.10	3495.61	3509.07	3521.94	3535.40	3540.08	3523.70	3497.95	3449.37
315.0	3494.44	3500.87	3521.94	3531.31	3535.99	3525.45	3492.68	3447.03	3406.65
360.0	3489.76	3489.17	3504.97	3519.60	3527.79	3526.62	3507.31	3478.05	3451.13

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3406.65	3356.91	3273.22	3198.31	3114.63	3011.04	2865.91	2740.67	2608.99
45.0	3443.52	3393.19	3346.96	3283.17	3195.39	3107.02	3010.46	2902.19	2751.79
90.0	3379.73	3317.11	3252.15	3176.66	3073.07	2971.83	2838.98	2711.41	2575.63
135.0	3419.53	3379.73	3332.33	3248.06	3170.81	3090.05	2961.30	2847.76	2688.00
180.0	3403.14	3341.69	3283.17	3207.09	3099.41	2997.58	2860.05	2734.23	2600.21
225.0	3332.91	3258.59	3176.66	3088.88	2992.90	2854.20	2732.47	2599.04	2453.32
270.0	3401.39	3350.47	3286.10	3185.44	3106.43	3015.14	2909.21	2764.08	2634.74
315.0	3348.72	3290.78	3223.48	3140.38	3026.26	2921.50	2803.87	2669.85	2493.70
360.0	3406.65	3356.91	3273.22	3198.31	3114.63	3011.04	2865.91	2740.67	2608.99

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2426.40	2286.53	2136.13	1954.71	1804.89	1650.98	1478.34	1163.60	1163.60
45.0	2617.18	2473.80	2295.90	2160.12	2017.91	1841.18	1701.89	1567.29	1396.41
90.0	2404.75	2261.37	2126.18	1985.73	1807.23	1667.95	1531.59	1311.55	1161.55
135.0	2553.40	2411.77	2273.07	2095.16	1950.03	1814.26	1669.12	1495.89	1361.29
180.0	2458.00	2283.02	2141.98	1997.43	1854.64	1687.26	1554.42	1420.40	1291.06
225.0	2277.75	2130.86	1988.65	1806.06	1667.95	1532.76	1156.40	1156.40	1130.89
270.0	2482.00	2339.79	2157.20	2017.91	1829.47	1686.09	1511.11	1380.02	1251.85
315.0	2350.32	2166.56	2019.67	1871.61	1693.11	1556.17	1419.23	1143.53	1143.53
360.0	2426.40	2286.53	2136.13	1954.71	1804.89	1650.98	1478.34	1163.60	1163.60

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1108.36	987.27	890.65	786.78	674.18	527.99	411.53	299.17	183.47
45.0	1271.17	1150.61	1018.94	922.37	807.08	660.78	581.77	444.24	340.07
90.0	1133.81	1028.36	902.89	783.56	641.87	535.19	430.96	332.12	211.32
135.0	1232.54	1117.25	992.60	888.43	757.92	637.37	530.27	399.18	298.52
180.0	1147.10	1045.27	928.81	818.20	705.84	566.56	443.07	335.39	309.06
225.0	1000.27	902.77	781.10	662.77	522.78	412.41	309.53	216.77	122.55
270.0	1136.57	1008.40	899.55	774.90	658.44	550.17	422.01	328.37	302.62
315.0	1042.40	938.17	826.34	677.69	563.40	455.83	356.23	238.01	156.55
360.0	1108.36	987.27	890.65	786.78	674.18	527.99	411.53	299.17	183.47

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	117.75	80.35	66.60	60.45	54.66	50.91	48.11	46.00	43.48
45.0	313.74	200.73	83.04	66.42	60.16	54.07	50.50	47.52	45.06
90.0	134.37	83.86	66.25	58.58	54.07	50.50	47.64	45.12	43.25
135.0	298.52	188.09	75.73	65.84	59.34	54.78	50.27	47.64	45.59
180.0	192.95	83.86	67.18	61.04	55.19	51.15	48.22	46.06	43.54
225.0	79.71	65.84	59.75	53.72	50.04	46.53	44.59	42.78	40.56
270.0	197.28	81.93	65.02	59.11	54.43	49.80	47.05	45.06	43.25
315.0	87.08	67.94	61.68	55.07	51.21	47.99	45.18	43.42	41.61
360.0	117.75	80.35	66.60	60.45	54.66	50.91	48.11	46.00	43.48

Intensity data(cd)

C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	41.55	39.80	38.10	36.17	34.88	33.77	32.66	31.13	29.96
45.0	43.25	41.43	39.27	37.75	36.28	34.70	33.59	32.54	31.19
90.0	41.08	39.39	37.81	35.93	34.82	33.71	32.36	31.25	30.14
135.0	43.19	41.38	39.74	37.75	36.34	35.05	33.59	32.42	31.37
180.0	41.73	39.62	37.92	36.40	34.76	33.65	32.48	31.31	29.79
225.0	38.92	37.40	35.70	34.47	33.42	32.36	31.19	29.79	28.50
270.0	41.49	39.39	37.75	36.28	34.70	33.65	32.66	31.54	30.08
315.0	39.85	37.86	36.46	35.11	34.00	32.71	31.66	30.49	29.03
360.0	41.55	39.80	38.10	36.17	34.88	33.77	32.66	31.13	29.96

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	28.38	27.10	25.98	24.70	23.76	23.00	22.12	21.36	20.60
45.0	29.90	28.79	27.39	25.98	24.93	24.05	23.00	22.12	21.19
90.0	28.91	27.56	26.16	25.05	24.17	23.00	22.24	21.19	20.66
135.0	30.14	28.50	27.15	26.04	24.99	23.88	23.00	22.18	21.13
180.0	28.62	27.27	25.98	24.64	23.76	22.88	21.83	21.07	20.42
225.0	26.80	25.69	24.40	23.47	22.65	21.89	20.95	20.37	19.96
270.0	28.85	27.15	25.93	24.81	23.88	23.12	22.30	21.48	20.78
315.0	27.74	26.16	25.11	24.17	23.23	22.18	21.36	20.66	20.25
360.0	28.38	27.10	25.98	24.70	23.76	23.00	22.12	21.36	20.60

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	20.13	19.72	18.84	17.85	17.21	17.03	16.91	16.85	16.74
45.0	20.60	20.19	19.66	18.84	17.91	17.32	17.15	16.97	16.97
90.0	20.31	19.66	18.79	17.91	17.26	17.03	16.80	16.74	16.62
135.0	20.54	20.01	19.43	18.49	17.44	17.09	16.91	16.80	16.80
180.0	19.90	19.49	18.79	17.56	16.97	16.80	16.68	16.62	16.50
225.0	19.49	18.49	17.56	16.91	16.80	16.62	16.62	16.50	16.33
270.0	20.19	19.66	19.02	17.91	17.32	17.21	17.03	17.03	16.97
315.0	19.66	19.08	18.14	17.21	16.97	16.85	16.68	16.62	16.44
360.0	20.13	19.72	18.84	17.85	17.21	17.03	16.91	16.85	16.74

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	16.62	16.39	16.21	15.92	15.51	15.10	14.51	14.05	13.40
45.0	16.85	16.62	16.44	16.33	16.04	15.63	15.27	14.75	14.28
90.0	16.44	16.21	16.09	15.80	15.51	15.04	14.57	14.10	13.58
135.0	16.62	16.44	16.21	16.04	15.74	15.33	14.86	14.51	14.05
180.0	16.33	16.09	15.92	15.80	15.45	15.10	14.63	13.99	13.40
225.0	16.21	15.98	15.80	15.45	15.10	14.57	14.10	13.69	13.11
270.0	16.80	16.74	16.50	16.27	15.98	15.51	15.04	14.51	13.93
315.0	16.39	16.33	16.21	15.98	15.51	15.04	14.57	14.05	13.34
360.0	16.62	16.39	16.21	15.92	15.51	15.10	14.51	14.05	13.40

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.93	12.41	11.47	10.59	9.83	9.42	9.19	8.95	8.78
45.0	13.87	13.23	12.64	11.88	10.48	9.77	9.36	9.13	8.95
90.0	13.05	12.58	12.17	11.76	9.89	9.36	9.19	8.90	8.66
135.0	13.28	12.70	12.11	11.59	10.48	9.71	9.31	9.07	8.84
180.0	12.87	12.23	11.82	10.71	9.95	9.36	9.19	8.90	8.72
225.0	12.58	11.82	10.59	9.77	9.36	9.13	8.95	8.78	8.72
270.0	13.40	12.70	11.76	10.48	9.66	9.31	9.13	8.84	8.72
315.0	12.76	12.00	11.00	10.07	9.60	9.25	9.01	8.84	8.72
360.0	12.93	12.41	11.47	10.59	9.83	9.42	9.19	8.95	8.78

Intensity data(cd)

C/γ(°)	90.0
0.0	8.72
45.0	8.72
90.0	8.78
135.0	8.78
180.0	8.78
225.0	8.72
270.0	8.72
315.0	8.78
360.0	8.72